



Dart Aerospace Ltd.  
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**D139-799-015**  
**Job Sheet 196896**



**Part No:** D139-799-015

**Job Qty:** 2 pcs

**Part Name:** Engine Wash



**Part Weight:** 0 lbs

**Status:** New

**Priority:** Medium

**Job Created:** 6/24/19

**Job Tracking No:**

**Due Date:** 7/30/19

**Created By:** Kimberley Guerin

**Type:** SOLD

**Description:**

**Note:** IIN-D139-799 REV.O IPP Rev:B 11.07.04 new issue DD verf:JLM IPP REV:B AS PER ECN 11-598 11-06-05  
JLM VERF BY:DD IPP Rev:C 11.09.27 PER CHG003 DD verf:EC IPP Rev:D 13.09.24 PER CHG005/ECN13-  
579 DD verf:JLM IPP REV:E 16.10.13 AS PER IIN REV.L DD VERF:JLM

**Ship Via:**

### Bill of Materials

### Job Routing

| Op<br>No | Operation              | Qty   | Start Date | Due<br>Date | Standard     |            | Workcenter/Supplier   |           | Sign-off |
|----------|------------------------|-------|------------|-------------|--------------|------------|-----------------------|-----------|----------|
|          |                        |       |            |             | Setup<br>Hrs | Run<br>Hrs | Workcenter / Supplier | Lead Time |          |
| 110      | Packaging 1 - Pick Kit | 2 pcs | 7/30/19    |             | 0.00         | 0.00       | Packaging 1 - 1       |           |          |
|          |                        |       |            |             |              |            | Packaging 1 - 2       |           |          |
|          |                        |       |            |             |              |            | Packaging 1 - 3       |           |          |
|          |                        |       |            |             |              |            | Packaging 1 - 4       |           |          |
|          |                        |       |            |             |              |            | Packaging 1 - 5       |           |          |
|          |                        |       |            |             |              |            | Packaging 1 - 6       |           |          |
|          |                        |       |            |             |              |            | Packaging 1 - 7       |           |          |
|          |                        |       |            |             |              |            | Packaging 1 - 8       |           |          |
|          |                        |       |            |             |              |            | Packaging 1 - 9       |           |          |
|          |                        |       |            |             |              |            | Packaging 1 - 10      |           |          |
|          |                        |       |            |             |              |            | Packaging 1 - 11      |           |          |
|          |                        |       |            |             |              |            | Packaging 1 - 12      |           |          |
|          |                        |       |            |             |              |            | Packaging 1 - 13      |           |          |
|          |                        |       |            |             |              |            | Packaging 1 - 14      |           |          |
|          |                        |       |            |             |              |            | Packaging 1 - 15      |           |          |
|          |                        |       |            |             |              |            | Packaging 1 - 16      |           |          |
|          |                        |       |            |             |              |            | Packaging 1 - 17      |           |          |
|          |                        |       |            |             |              |            | Packaging 1 - 18      |           |          |
|          |                        |       |            |             |              |            | Packaging 1 - 19      |           |          |
|          |                        |       |            |             |              |            | Packaging 1 - 20      |           |          |
|          |                        |       |            |             |              |            | Packaging 1 - 21      |           |          |
|          |                        |       |            |             |              |            | Packaging 1 - 22      |           |          |
|          |                        |       |            |             |              |            | Packaging 1 - 23      |           |          |
|          |                        |       |            |             |              |            | Packaging 1 - 24      |           |          |
|          |                        |       |            |             |              |            | Packaging 1 - 25      |           |          |
|          |                        |       |            |             |              |            | Packaging 1 - 26      |           |          |
|          |                        |       |            |             |              |            | Packaging 1 - 27      |           |          |
|          |                        |       |            |             |              |            | Packaging 1 - 28      |           |          |
|          |                        |       |            |             |              |            | Packaging 1 - 29      |           |          |
|          |                        |       |            |             |              |            | Packaging 1 - 30      |           |          |

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Container No: S201399

Part: D139-799-015

Job No: 196896

Serial No/Batch: S201399

Revision: 0

Inspector:

Exp Date:

Instructions: FAA STC SR02138SE 18/08/17, JTG, STC LoA C.

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|                                 |       |         |           |                        |  |  |
|---------------------------------|-------|---------|-----------|------------------------|--|--|
|                                 |       |         |           | Packaging 1 - 31       |  |  |
|                                 |       |         |           | Packaging 1 - 32       |  |  |
|                                 |       |         |           | Packaging 1 - 33       |  |  |
|                                 |       |         |           | Packaging 1 - 34       |  |  |
|                                 |       |         |           | Packaging 1 - 35       |  |  |
|                                 |       |         |           | Packaging 1 - 36       |  |  |
| 120 QC 4                        | 2 pcs | 7/30/19 | 0.00 0.00 | QC 4 - 28              |  |  |
|                                 |       |         |           | QC 4 - 58              |  |  |
|                                 |       |         |           | QC 4 - 69              |  |  |
|                                 |       |         |           | QC 4 - 9               |  |  |
|                                 |       |         |           | QC 4 - 46              |  |  |
|                                 |       |         |           | QC 4 - 68              |  |  |
|                                 |       |         |           | QC 4 - 72              |  |  |
|                                 |       |         |           | QC 4 - 74              |  |  |
|                                 |       |         |           | QC 4 - 75              |  |  |
| 130 Packaging 3-1 - Stock - B4B | 2 pcs | 7/30/19 | 0.00 0.00 | Packaging 3 - 1 - B4B  |  |  |
|                                 |       |         |           | Packaging 3 - 2 - B4B  |  |  |
|                                 |       |         |           | Packaging 3 - 3 - B4B  |  |  |
|                                 |       |         |           | Packaging 3 - 4 - B4B  |  |  |
|                                 |       |         |           | Packaging 3 - 5 - B4B  |  |  |
|                                 |       |         |           | Packaging 3 - 6 - B4B  |  |  |
|                                 |       |         |           | Packaging 3 - 7 - B4B  |  |  |
|                                 |       |         |           | Packaging 3 - 8 - B4B  |  |  |
|                                 |       |         |           | Packaging 3 - 9 - B4B  |  |  |
|                                 |       |         |           | Packaging 3 - 10 - B4B |  |  |
|                                 |       |         |           | Packaging 3 - 11 - B4B |  |  |
|                                 |       |         |           | Packaging 3 - 12 - B4B |  |  |
|                                 |       |         |           | Packaging 3 - 13 - B4B |  |  |
|                                 |       |         |           | Packaging 3 - 14 - B4B |  |  |
|                                 |       |         |           | Packaging 3 - 15 - B4B |  |  |
|                                 |       |         |           | Packaging 3 - 16 - B4B |  |  |
|                                 |       |         |           | Packaging 3 - 17 - B4B |  |  |
|                                 |       |         |           | Packaging 3 - 18 - B4B |  |  |
|                                 |       |         |           | Packaging 3 - 19 - B4B |  |  |
|                                 |       |         |           | Packaging 3 - 20 - B4B |  |  |
|                                 |       |         |           | Packaging 3 - 21 - B4B |  |  |
|                                 |       |         |           | Packaging 3 - 22 - B4B |  |  |
|                                 |       |         |           | Packaging 3 - 23 - B4B |  |  |
|                                 |       |         |           | Packaging 3 - 24 - B4B |  |  |
|                                 |       |         |           | Packaging 3 - 25 - B4B |  |  |
|                                 |       |         |           | Packaging 3 - 26 - B4B |  |  |
|                                 |       |         |           | Packaging 3 - 27 - B4B |  |  |
|                                 |       |         |           | Packaging 3 - 28 - B4B |  |  |
|                                 |       |         |           | Packaging 3 - 29 - B4B |  |  |
|                                 |       |         |           | Packaging 3 - 30 - B4B |  |  |
|                                 |       |         |           | Packaging 3 - 31 - B4B |  |  |
|                                 |       |         |           | Packaging 3 - 32 - B4B |  |  |
|                                 |       |         |           | Packaging 3 - 33 - B4B |  |  |
|                                 |       |         |           | Packaging 3 - 34 - B4B |  |  |
|                                 |       |         |           | Packaging 3 - 35 - B4B |  |  |
|                                 |       |         |           | Packaging 3 - 36 - B4B |  |  |
| 135 DC - 1 - B4B                | 2 pcs | 7/30/19 | 0.00 0.00 | DC - 1 - B4B           |  |  |
|                                 |       |         |           | DC - 2 - B4B           |  |  |
| 140 QC 21 - FG                  | 2 pcs | 7/30/19 | 0.00 0.00 | QC 21 - FG - 21        |  |  |
|                                 |       |         |           | QC 21 - FG - 70        |  |  |
|                                 |       |         |           | QC 21 - SA - 53        |  |  |

Part Op 110 - Pick Kit

Descriptions: 120 - QC4- 100% Inspect kits for completeness

130 - Identify and pack for shipping as per PPP D139-799-015 PPP rev:

DAS 75 9-89

JUL 31 2019

DAS 75 9-89

JUL 31 2019

21 AUG 01 2019

21 AUG 01 2019

FGU 19

MVB

MVB

Part Op 110 - Pick Kit

Descriptions: 120 - QC4- 100% Inspect kits for completeness

130 - Identify and pack for shipping as per PPP D139-799-015 PPP rev:

135 - Document Control - Photocopy bluefile &amp; type labels per PPP D139-799-015 CHG006

140 - QC21- Final Inspection - Work Order Release

010896

Exp: 02/09/2020

## Job BOM

| Part / Item   | Component Name            | Quantity      | Operation                  | Container |
|---------------|---------------------------|---------------|----------------------------|-----------|
| AN3C3A        | Bolt                      | 8 Ea (4 ea)   | 110-Packaging 1 - Pick Kit | 5147510   |
| AN3C5A        | Bolt                      | 0 Ea (3 ea)   | 110-Packaging 1 - Pick Kit | 5082907   |
| AN526-1032R16 | Screw                     | 8 Ea (4 ea)   | 110-Packaging 1 - Pick Kit | 5162950   |
| AN832-6J      | Union                     | 4 pcs (2 ea)  | 110-Packaging 1 - Pick Kit | 5147510   |
| AN924-6J      | Nut                       | 8 Ea (4 ea)   | 110-Packaging 1 - Pick Kit | 5147510   |
| CB2000CRA3-28 | Stud                      | 6 Ea (3 ea)   | 110-Packaging 1 - Pick Kit | 5147510   |
| CB4022V3CR8   | Anchor Nut                | 6 Ea (3 ea)   | 110-Packaging 1 - Pick Kit | 5147510   |
| CB91          | Acrylic Adhesive, 3.5G    | 4 pcs (2 ea)  | 110-Packaging 1 - Pick Kit | 5147510   |
| D4121-1       | Hose Assembly             | 4 pcs (2 ea)  | 110-Packaging 1 - Pick Kit | 5147510   |
| D4121-3       | Hose Assembly             | 2 pcs (1 ea)  | 110-Packaging 1 - Pick Kit | 5147510   |
| D4121-5       | Hose Assembly             | 2 pcs (1 ea)  | 110-Packaging 1 - Pick Kit | 5147510   |
| D4131-041     | Manifold Assembly         | 2 pcs (1 ea)  | 110-Packaging 1 - Pick Kit | 5147510   |
| D4131-043     | Doubler Assembly          | 2 pcs (1 ea)  | 110-Packaging 1 - Pick Kit | 5147510   |
| D4146-1       | Fitting                   | 4 pcs (2 ea)  | 110-Packaging 1 - Pick Kit | 5147510   |
| D4182-1       | Fitting, Quick Disconnect | 4 pcs (2 ea)  | 110-Packaging 1 - Pick Kit | 5147510   |
| D4384-1       | Placard                   | 2 pcs (1 ea)  | 110-Packaging 1 - Pick Kit | 5147510   |
| MS21043-3     | Nut                       | 20 Ea (10 ea) | 110-Packaging 1 - Pick Kit | 5147510   |
| MS21919-WDG9  | Clamp                     | 18 Ea (9 ea)  | 110-Packaging 1 - Pick Kit | 5147510   |
| MS21919WCH16  | Clamp                     | 4 Ea (2 ea)   | 110-Packaging 1 - Pick Kit | 5147510   |
| MS21919WCH4   | Clamp                     | 4 Ea (2 ea)   | 110-Packaging 1 - Pick Kit | 5147510   |
| MS21919WCH9   | Clamp                     | 8 Ea (4 ea)   | 110-Packaging 1 - Pick Kit | 5147510   |
| NAS1149C0316R | Washer                    | 12 Ea (6 ea)  | 110-Packaging 1 - Pick Kit | 5147510   |
| NAS1149C0332R | Washer (AN960C10L)        | 16 Ea (8 ea)  | 110-Packaging 1 - Pick Kit | 5147510   |
| NAS1149C0932P | Washer (AN960C916L)       | 8 Ea (4 ea)   | 110-Packaging 1 - Pick Kit | 5147510   |
| NAS43DD3-80N  | Spacer                    | 6 Ea (3 ea)   | 110-Packaging 1 - Pick Kit | 5147510   |

## Job Allocations

| Operation                  | Component Part | Required | Inventory | Allocated |
|----------------------------|----------------|----------|-----------|-----------|
| 110-Packaging 1 - Pick Kit | AN3C3A         | 8        | 340       | 0         |
|                            | AN3C5A         | 6        | 986       | 0         |
|                            | AN526-1032R16  | 8        | 93        | 0         |
|                            | AN832-6J       | 4        | 35        | 0         |
|                            | AN924-6J       | 8        | 54        | 0         |
|                            | CB2000CRA3-28  | 6        | 68        | 0         |
|                            | CB4022V3CR8    | 6        | 72        | 0         |
|                            | CB91           | 4        | 47        | 0         |
|                            | D4121-1        | 4        | 23        | 0         |
|                            | D4121-3        | 2        | 23        | 0         |
|                            | D4121-5        | 2        | 23        | 0         |
|                            | D4131-041      | 2        | 5         | 0         |
|                            | D4131-043      | 2        | 12        | 0         |
|                            | D4146-1        | 4        | 44        | 0         |
|                            | D4182-1        | 4        | 20        | 0         |
|                            | D4384-1        | 2        | 15        | 0         |
|                            | MS21043-3      | 20       | 1,076     | 0         |
|                            | MS21919-WDG9   | 18       | 110       | 0         |
|                            | MS21919WCH16   | 4        | 38        | 0         |
|                            | MS21919WCH4    | 4        | 38        | 0         |
|                            | MS21919WCH9    | 8        | 46        | 0         |
|                            | NAS1149C0316R  | 12       | 61        | 0         |
|                            | NAS1149C0332R  | 16       | 5,234     | 0         |
|                            | NAS1149C0932R  | 8        | 233       | 0         |
|                            | NAS43DD3-80N   | 6        | 46        | 0         |

## Part Specifications

Specifications could not be found.

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| Qty<br>-015 | Part Number   | Description                 |
|-------------|---------------|-----------------------------|
| X           | D139-799-015  | ENGINE WASH KIT             |
| 2           | D4121-1       | HOSE ASSEMBLY               |
| 1           | D4121-3       | HOSE ASSEMBLY               |
| 1           | D4121-5       | HOSE ASSEMBLY               |
| 1           | D4131-041     | MANIFOLD ASSEMBLY           |
| 1           | D4131-043     | DOUBLER ASSEMBLY            |
| 2           | D4146-1       | FITTING                     |
| 2           | D4182-1       | FITTING, QUICK DISCONNECT   |
| 1           | D4384-1       | PLACARD                     |
| 3           | AN3C5A        | BOLT (or NAS6603-4)         |
| 4           | AN3C3A        | BOLT                        |
| 4           | AN526-1032R16 | SCREW                       |
| 2           | AN832-6J      | UNION (or AN837-6J)         |
| 4           | AN824-6J      | NUT                         |
| 10          | MS21043-3     | NUT                         |
| 4           | NAS1149C0932R | WASHER (or AN960C916L)      |
| 8           | NAS1149C0332R | WASHER (or AN960C10L)       |
| 6           | NAS1149C0316R | WASHER (or AN960C10LL)      |
| 3           | NAS43DD3-80N  | SPACER                      |
| 9           | MS21919WDG09  | CLAMP (or AS21919WDG09)     |
| 2           | MS21919WCH4   | CLAMP (or AS21919W CH4)     |
| 4           | MS21919WCH9   | CLAMP (or AS21919W CH9)     |
| 2           | MS21919WCH16  | CLAMP (or AS21919W CH16)    |
| 3           | CB2000CRA3-28 | STUD (or A386A3E30C)        |
| 2           | CB4022V3CR8   | ANCHOR NUT (or AW001TL3A08) |
| 2           | CB91          | 3.5g ACRYLIC ADHESIVE KIT   |

## Change Record

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**Part Number:** D139-799-015

**Description:** ENGINE WASH

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